

## **BUILDING DIVISION**

## **PLAN CHECK NOTE**

**From: Building Plan Check**

**PCN #12**

**Previous Version: 12-10-02**

**Revised Date: 4-28-2008**

### **Subject: Horizontal distribution of lateral Forces and Drift consideration in Light-framed Construction**

#### **Code reference:**

2007 California Building Code

#### **Purpose:**

The purpose of this document is to specify the horizontal distribution of lateral forces for the shear walls along the perimeters of the building in a rigid diaphragm.

#### **Findings:**

##### **1. Flexible Diaphragm**

As defined in the building code.

##### **2. Rigid Diaphragm:**

When rigid diaphragm assumption is used for wood diaphragms, or when diaphragm rotation is used per Section 2305.2.5, the combined deflection of the diaphragm and the supporting shear walls shall be calculated and conform to the story drift limits of Table 12.12-1 or ASCE 7-05. The shear walls along the perimeters of the building shall be designed based on the tributary floor area.